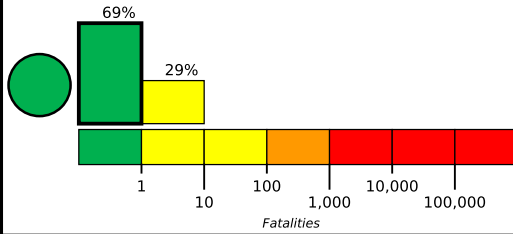


M 4.1, 7km NW of The Geysers, CA

Origin Time: 2019-06-11 07:46:25 UTC (Tue 00:46:25 local)
Location: 38.8137° N 122.8233° W Depth: 2.0 km

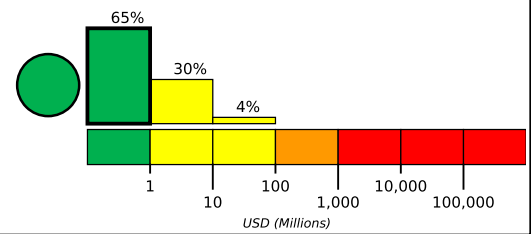
Created: 9 hours, 27 minutes after earthquake

Estimated Fatalities



Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Economic Losses

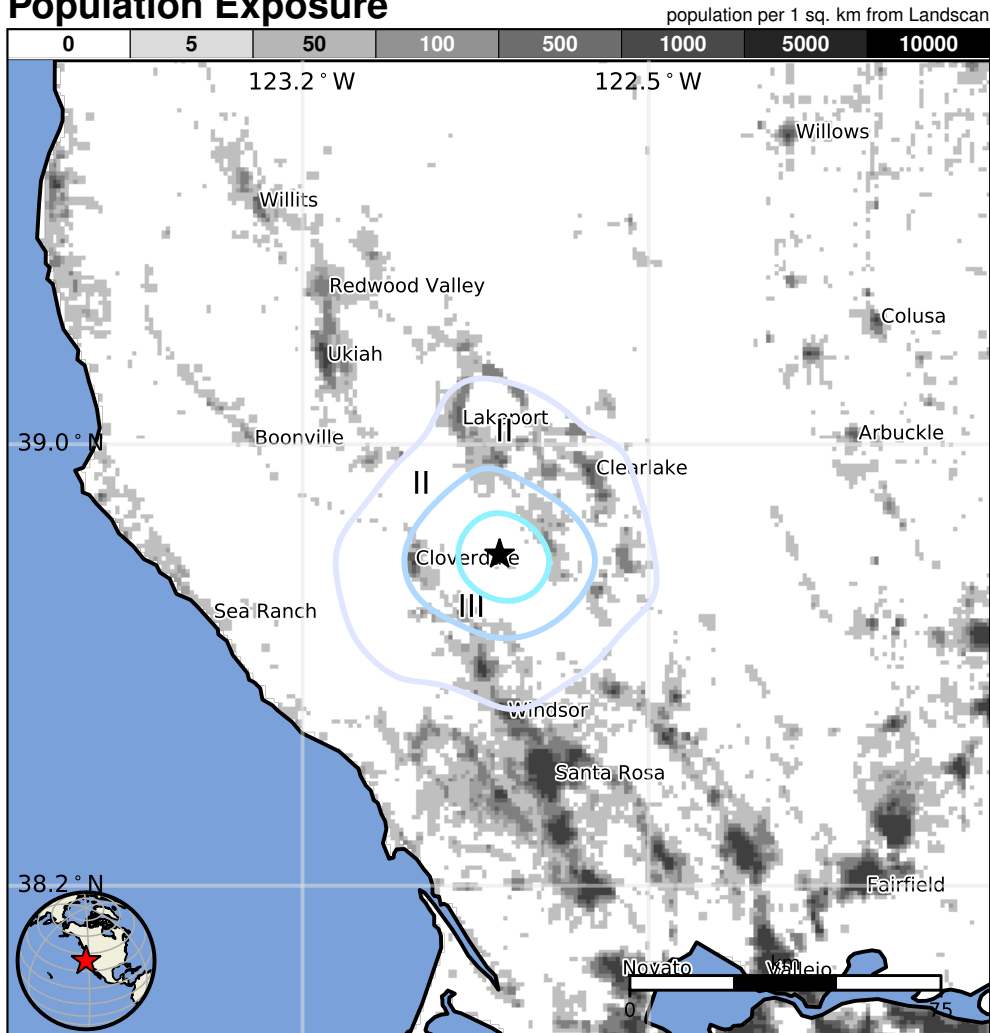


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		1,877k*	105k	2k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are highly resistant to earthquake shaking, though some vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1993-09-21	394	6.0	VI(47k)	1
2003-12-22	387	6.6	VI(8k)	2
1989-10-18	210	6.9	VIII(109k)	62

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Cobb	2k
III	Cloverdale	9k
II	Kelseyville	3k
II	Middletown	1k
II	Soda Bay	1k
II	Lakeport	5k
I	Santa Rosa	168k
I	Vallejo	116k
I	Fairfield	105k
I	Antioch	102k
I	Vacaville	92k

bold cities appear on map.

(k = x1000)